PHCbi

PR-L5181W-PA

High Performance
Undercounter Refrigerator

+2 to +8°C Undercounter Refrigerator   5.0 cu.ft. | 142 L

PR-L5181W-PA

The PR-L5181W-PA high performance undercounter refrigerator is designed to maintain the +5°C temperature setpoint and ±3°C uniformity necessary for the storage of critical vaccines and biologics. This model is engineered to meet the strict regulatory guidelines of the CDC, ANSI, and NSF in a small footprint. Precision temperature control and uniformity prevent the interior from cooling below freezing and risking vaccine and biologic viability whether the unit is loaded or empty.

Temperature Control Precision

This refrigerator features precise temperature control engineered to meet the current and evolving criteria included in the CDC, NSF, and ANSI guidelines for vaccine storage while requiring less energy than traditional undercounter refrigerators. The purpose-built PR-L5181W-PA is designed to maintain the high performance necessary for valuable inventory.

Ease of Use and Accessibility

With a compact footprint, the PR-L5181W-PA is designed for functional workspaces and fits under most tables, cabinets and lab benches. The solid door protects light-sensitive materials. If a door is left ajar, the self-closing mechanism mitigates scenarios that could result in lost product. An alarm provides an even deeper level of protection. An optional stacking accessory is available to maximize storage capacity when space constraints become a concern.

Temperature Uniformity Even When Loaded

Many high performance refrigerators can maintain precise temperatures when they are empty. The PR-L5181W-PA has been designed to maintain high performance temperature uniformity of ±3°C even when loaded, as often occurs during peak vaccine season.

Energy and Sustainability

This undercounter refrigerator provides energy efficiency and sustainability without compromising performance. Traditional refrigerants have been replaced with environmentally friendly natural refrigerants to meet Significant New Alternatives Policy (SNAP) guidelines for low global warming potential and no ozone-depleting substances.

Microprocessor Control and Alarm

The unit has a door-mounted control with an easy to view LED display that features preset automatic alarm tracking around the temperature setpoint. The alarm is set at +3°C above and below setpoint, consistent with vaccine and high-value product storage requirements.

Cycle Defrost System

The PR-L5181W-PA does not rely solely on a time-based system. Instead, the refrigerator utilizes a sophisticated defrost cycle that only triggers when needed and when the compressor is not running, minimizing temperature spikes often associated with common defrost systems. This innovation provides assurances of optimum temperature control maintenance at all times.
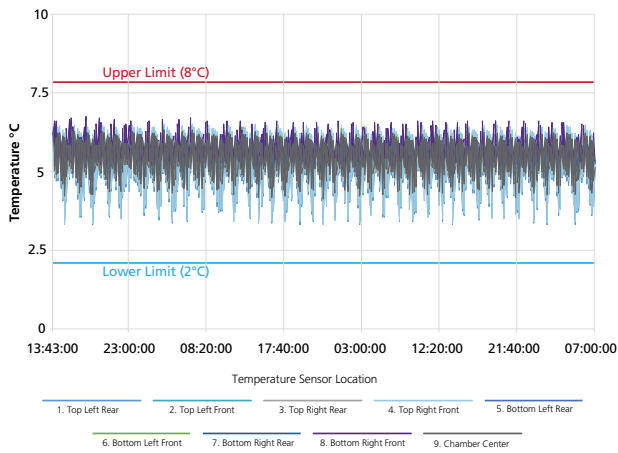
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High Performance Undercounter Refrigerator

PR-L5181W-PA
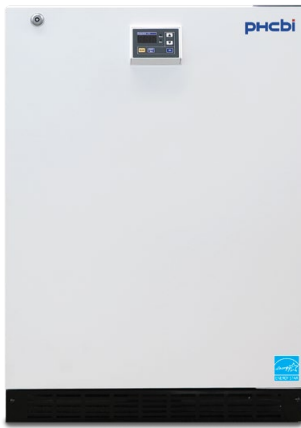
PR-L5181W-PA

Uniformity, Steady State, 5°C
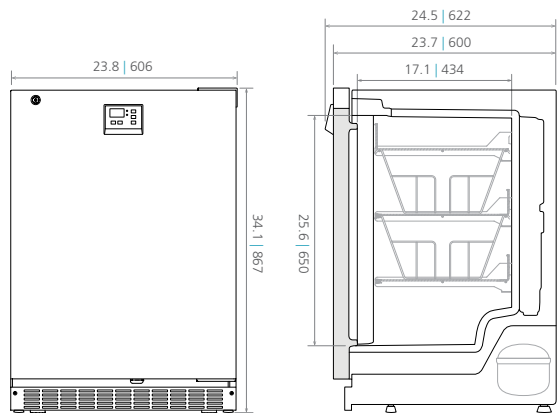
Model Number		PR-L5181W-PA
Exterior Dimensions (W × D × H) [1]	inches | mm	23.8 × 23.7 × 34.1 | 606 × 600 × 867
Interior Dimensions (W × D × H)	inches | mm	19.9 × 17.1 × 25.6 | 507 × 434 × 650
Volume	cu.ft. | liters	5.0 | 142
Net Weight	lbs | kg	100 | 45
Performance		
Warranty [2]		2 years parts / labor
Cooling Performance [3]	°C	2 to 8
Temperature Setting Range	°C	2 to 8 in 0.1°C increments
Temperature Control Range [3]	°C	2 to 8 in 0.1°C increments
Uniformity	°C	±3
Control		
Controller		Microprocessor
Display		LED
Security		Front panel anti-tamper lockout
Temperature Sensor		Thermistor
Refrigeration		
Refrigeration System		Forced air fin and tube evaporator
Compressor	W	40 (hermetic)
Refrigerant		R-600a
Defrost		Cycle, time actuated, temperature controlled
Insulation Material, SNAP Compliant		HFO foamed-in-place
Construction		
Exterior Material		White PCM galvanized steel, polyester resin baked finish
Interior Material		HFO vacuum formed plastic
Outer Door	qty	Electro galvanized steel
Key Lock	qty	Door lock, top mounted with 2 keys
Shelves	qty	3, coated steel wire
Shelf Dimension (W × D)	inches | mm	19.2 × 14.75 | 487 × 375
Access Port	qty	1 (standard)
Access Port Position		Right side of product
Access Port Diameter	inches | mm	1.2 | 30
Leveling Feet	qty	4
Alarms (V=Visual, B=Buzzer)		
Power Failure		Optional
High Temperature		V (immediate), B (15 minute delay)
Low Temperature		V (immediate), B (15 minute delay)
Door Alarm		V (immediate), B (2 minute delay)
Sensor Failure		V (error code)
Electrical and Noise Level		
Power Supply		115V, 60Hz, 1Ø, NEMA 5-15P, requires NEMA 5-15R receptacle
Options		
Chart Recorder		MTRC958 (remote mounted)
Chart Paper		C738176
Chart Pens		R252
4-20mA Analog Output		MTR420MAC
Stacking Kit		833-0-3131-102-00
Keypad Electric Lock. Other Configurations Available.		ELKPHRFRKIT
Optional Communication System		
Wireless, Cloud-Based, Automatic Data Management		LabAlert® Monitoring System

[1] External dimensions of main cabinet only. Depth is 24.5" (622 mm) including the controller
[2] Current warranty offered at time of printing and may be subject to change; US and Canada only
[3] Air temperature measured at refrigerator center, ambient temperature +24°C, no load

Specifications are subject to change without notice.
For latest specification information contact PHC Corporation of North America at info@us.phchd.com.
Performance data herein is based on independent testing at time of publication

Dimensions

Unit : inch | mm

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